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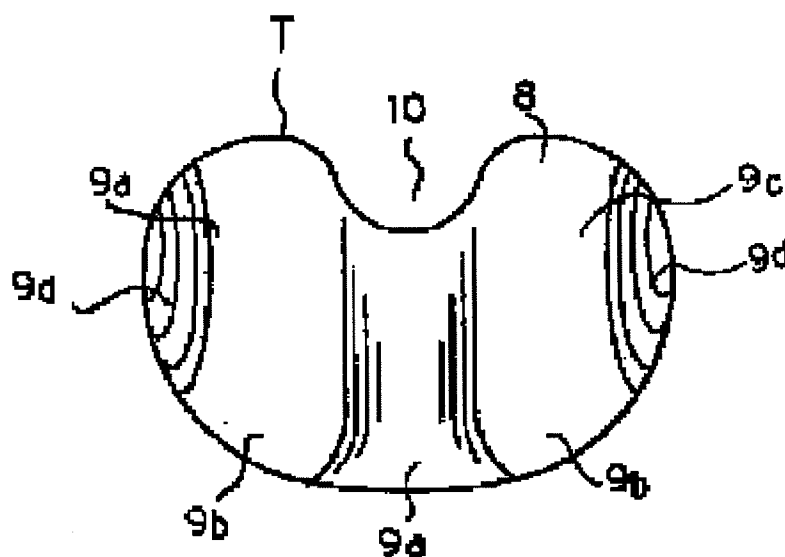
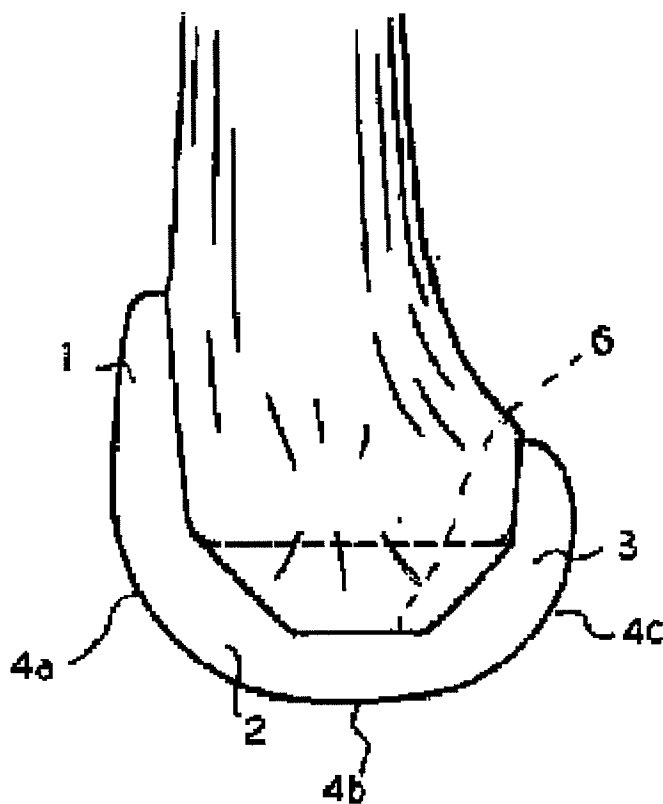
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(57) Abstract:

PURPOSE: To enable the sound and normal maintenance of the muscular strength near the joint of a knee by arranging a pair of rear walls to a truncated chevron pattern opening backward at the femur component of the artificial knee joint, thereby affording the space for housing the

cruciform ligament, lessening the amt. of bone cutting and eliminating the need for excizing the cruciform ligament.

CONSTITUTION: The femur component F of the artificial knee joint is constructed by integrally coupling the front wall 1 and a pair of the rear walls 3 via a crosslinking part 2. The front side of the front surface of the sliding side is formed as a patella sliding surface 4a, the central part as an expansion position sliding surface 4b, the rear side as a flexural sliding surface 4c and the other bone fixing side as a bone contact surface 6. This flexural sliding surface 4c is composed of a continuously curving surface. The center on the upper surface of the plate 8 of the tibia component T is formed as a central build-up part 9a. The front side of the sliding surfaces existing on the right and left thereof is formed as an expansion position sliding surface 9b and the outer edge on the rear side thereof as a flexural sliding surface 9c. A marginally descending curvilinear slope 9d of a shape descending gradually outward is



formed on this flexural sliding
surface 9c.

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